

## CURRICULUM VITAE FOR ACADEMIC PROMOTION

**Paul Gisbert Auwaerter, MD, MBA, FACP, FIDSA**

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Paul G. Auwaerter, MD

October 11, 2012

### DEMOGRAPHIC AND PERSONAL INFORMATION

#### Current appointments

|              |   |
|--------------|---|
| 2002-present | Managing Editor, Johns Hopkins Antibiotic Guide (ABX-Guide)   |
| 2003-present | Chief Medical Officer, Point of Care-Information Technology Center (POC-IT), Johns Hopkins University School of Medicine  |
| 2003-present | Associate Professor of Medicine, Divisions of Infectious Diseases and General Internal Medicine, Johns Hopkins University School of Medicine, Johns Hopkins Hospital, Baltimore, Maryland |
| 2006-present | Clinical Director, Division of Infectious Diseases, Department of Medicine, Johns Hopkins University School of Medicine   |

#### Personal Data

##### Office Address:

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#### Education and Training

(b) (6)

##### Undergraduate

1984

A.B., Biology, *magna cum laude*, Columbia College, Columbia University, New York, NY

##### Doctoral

1988

M.D., College of Physicians and Surgeons, Columbia University, New York, NY

#### Postdoctoral

|           |  |
|-----------|--|
| 1988-1989 | Intern, Internal Medicine, Johns Hopkins Hospital, Baltimore, MD   |
| 1989-1991 | Residency, Internal Medicine, Johns Hopkins Hospital, Baltimore, MD                                      |
| 1992-1996 | Fellow, Infectious Diseases, Johns Hopkins University School of Medicine, Baltimore, MD                  |
| 1999-2003 | M.B.A., Johns Hopkins University School of Professional Studies in Business and Education, Baltimore, MD |

#### Professional Experience

|              |  |
|--------------|--|
| 1991-1992    | Assistant Chief of Service, Instructor, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD   |
| 1993-1996    | Attending Physician, Part-time staff, Department of Emergency Medicine, Sinai Hospital, Baltimore, MD  |
| 1996-2003    | Assistant Professor, Medicine, Divisions of General Internal Medicine and Infectious Diseases, Johns Hopkins University School of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD |
| 2000-2006    | Director of General Internal Medicine at Green Spring Station, Johns Hopkins School University of Medicine, Baltimore, MD  |
| 2003-present | Associate Professor, Medicine, Divisions of Infectious Diseases and General Internal Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  |
| 2006-present | Clinical Director, Division of Infectious Diseases, Johns Hopkins University School of Medicine, Baltimore, MD   |

## RESEARCH ACTIVITIES

### Publications (peer-reviewed)

1. Gaydos CA, Eiden JJ, Oldach D, Mundy LM, **Auwaerter, PG**, Warner ML, Vance E, Burton AA, Quinn TC. Diagnosis of *Chlamydia pneumonia* in patients with community-acquired pneumonia by polymerase chain reaction enzyme immunoassay. *Clinical Infectious Diseases*. 1994; 19(1): 157-161.
2. Mundy LM, **Auwaerter PG**, Oldach D, Warner ML, Burton A, Vance E, Gaydos CA, Joseph JM, Gopalan R, Moore RD, Quinn TC, Charache P, Bartlett JG. Community-acquired pneumonia: impact of immune status. *American Journal of Respiratory and Critical Care Medicine*. 1995; 152(4 Part 1): 1309-1315.
3. Fantry L, De Jonge E, **Auwaerter PG**, Lederman HM. Immunodeficiency and elevated CD4 T lymphocyte counts in two patients coinfecting with human immunodeficiency virus and human lymphotropic virus type I. *Clinical Infectious Diseases*. 1995; 21(6):1466-1468.
4. **Auwaerter, PG**, Oldach D, Mundy LN, Burton A, Warner ML, Vance E, Moore RD, Rossi CA. Hantavirus serologies in patients hospitalized with community-acquired pneumonia. *Journal of Infectious Diseases*. 1996; 173(1): 237-239.
5. **Auwaerter PG**, Hussey GD, Goddard EA, Hughes J, Ryon JJ, Stebel PM, Beatty D, Griffin DE. Changes within T cell receptor V beta subsets in infants following measles vaccination. *Clinical Immunology and Immunopathology*. 1996; 79(2):163-170.
6. **Auwaerter PG**, Kaneshima H, McCune JM, Wiegand G, Griffin DE. Measles virus infection of the thymic epithelium in the SCID-hu mouse leads to thymocyte apoptosis. *Journal of Virology*. 1996; 70(6): 3734-3740.

7. Mundy LM, Oldach D, **Auwaerter PG**, Gaydos CA, Moore RD, Bartlett JG, Quinn TC. Implications for macrolide treatment in community-acquired pneumonia. *Chest*. 1998; 113(5): 1201-1208.
8. Valsamakis A, Schneider H, **Auwaerter PG**, Kaneshima H, Billeter MA, Griffin DE. Recombinant measles viruses with mutations in the C, V, or F gene have altered growth phenotypes in vivo. *Journal of Virology*. 1008; 72(10):7754-7761.
9. Polack, FP, **Auwaerter PG**, Lee SH, Noursairi HC, Valsamakis A, Lieferman KM, Diwan A, Adams RJ, Griffin DE. Production of atypical measles in rhesus macaques: evidence for disease mediated by immune complex formation and eosinophils in the presence of fusion-inhibiting antibody. *Nature Medicine*. 1999; 5(6):629-34.
10. **Auwaerter PG**, Rota PA, Elkins WR, Adams RJ, DeLozier T, Shi Y, Bellini WJ, Murphy BR, Griffin DE. Measles virus infection in rhesus macaques: altered immune responses and comparison of the virulence of six different virus strains. *Journal of Infectious Diseases*. 1999; 180(4):950-958.
11. Valsamakis A, **Auwaerter PG**, Rima Bert, Kaneshima H, Griffin DE. Altered Virulence of Vaccine Strains of Measles Virus after Prolonged Replication in Human Tissue. *Journal of Virology*, October; 73 (10):8791-7, 1999.
12. Alghaferi MY, Anderson JM, Park J, **Auwaerter PG**, Aucott JN, Norris DE, Dumler JS. *Borrelia burgdorferi* ospC heterogeneity among human and murine isolates from a defined region of northern Maryland and southern Pennsylvania: lack of correlation with invasive and noninvasive genotypes. *Journal of Clinical Microbiology*. 2005; 43(4):1879-84.
13. Yang S, Lin S, Khalil A, Gaydos C, Nuermberger E, Juan G, Hardick J, Bartlett JG, **Auwaerter PG**, Rothman RE. Quantitative PCR assay using sputum samples for rapid diagnosis of pneumococcal pneumonia in adult emergency department patients. *Journal of Clinical Microbiology*. 2005; 43(7):3221-6.
14. Coulter P, Lema C, Flayhart D, Linhardt AS, Aucott JN, **Auwaerter PG**, Dumler JS. Two-year evaluation of *Borrelia burgdorferi* culture and supplemental tests for definitive diagnosis of Lyme disease. *Journal of Clinical Microbiology*. 2005; 43(10):5080-5084.
15. Bochicchio GV, Smit PA, Moore R, Bochicchio K, **Auwaerter P**, Johnson SB, Scalea T, Bartlett JG. POC-IT Group. Pilot study of a web-based antibiotic decision management guide. *Journal of the American College of Surgeons*. 2006; 202(3):459-67.
16. Alonso CD, Barclay S, Tao X, **Auwaerter PG**. Increasing incidence of iliopsoas abscesses with MRSA as a predominant pathogen. *Journal of Infection*. 2011; 63(1):1-7.
17. Barclay SS, Melia MT, **Auwaerter PG**. Misdiagnosis of late Lyme arthritis by inappropriate use of *B. burgdorferi* synovial fluid immunoblot testing. *Clinical Vaccinology and Immunology*, *in press*.

## Extramural Funding

### Current:

April 2011-current, [REDACTED] (b) (4)

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Site PI: Paul Auwaerter

### Previous:

2000-2003, [REDACTED] (b) (4)

[REDACTED]

[REDACTED]

[REDACTED]

PI: Paul Auwaerter, co-PI [REDACTED] (b) (6)

2000-2001, [REDACTED] (b) (4)

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Site PI: Paul Auwaerter

2000-2001, [REDACTED] (b) (4)

[REDACTED]

[REDACTED]

[REDACTED]

Site PI: Paul Auwaerter

1999-2000, [REDACTED] (b) (4)

[REDACTED]

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Site PI: Paul Auwaerter

1998-1999, [REDACTED] (b) (4)

[REDACTED]

[REDACTED]

[REDACTED]

Site PI: Paul Auwaerter

1997-1998, [REDACTED] (b) (4)

[REDACTED]

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[REDACTED]

[REDACTED]

Site PI: Paul Auwaerter

## EDUCATIONAL ACTIVITIES

### Educational Publications

#### Peer Reviewed Publications

1. **Auwaerter PG.** Infectious Mononucleosis in Middle Age. JAMA. 1999; 281(5): 454-459.
2. **Auwaerter PG.** Infectious mononucleosis in active patients: definitive answers to common questions. The Physician and Sports Medicine. 2002; 11:43-50.
3. **Auwaerter PG,** Aucott J, Dumler JS. Lyme borreliosis (Lyme disease): molecular and cellular pathobiology and prospects for prevention, diagnosis and treatment. Expert Reviews in Molecular Medicine. 2004; 6(2):1-22.
4. **Auwaerter PG.** Infectious mononucleosis: return to play. Clinics in Sports Medicine. 2004; 23(3):485-97.
5. **Auwaerter PG.** Cellulitis, skin abscesses, and community-acquired methicillin-resistant Staphylococcus aureus. Advanced Studies in Medicine 6 (2):62-70, 2006.
6. **Auwaerter PG.** Recent advances in the understanding of infectious mononucleosis: are prospects improved for treatment or control? Expert Review of Anti-infective Therapy. 2006; 4(6):1039-49.
7. **Auwaerter PG.** Antibiotics are not the answer for patients with persisting symptoms attributable to Lyme disease. Clinical Infectious Diseases. 2007; 45(2):143-8.
8. Feder HM Jr, Johnson BJ, O'Connell S, Shapiro ED, Steere AC, Wormser GP; Ad Hoc International Lyme Disease Group, Agger WA, Artsob H, **Auwaerter P,** Dumler JS, Bakken JS, Bockenstedt LK, Green J, Dattwyler RJ, Munoz J, Nadelman RB, Schwartz I, Draper T, McSweeney E, Halperin JJ, Klempner MS, Krause PJ, Mead P, Morshed M, Porwancher R, Radolf JD, Smith RP Jr, Sood S, Weinstein A, Wong SJ, Zemel L. A critical appraisal of "chronic Lyme disease." New England Journal of Medicine. 2007; 357(14):1422-30.
9. Marinopoulos SS, Coylewright M, **Auwaerter PG,** Flynn JA. Clinical Problem Solving. More than meets the ear. New England Journal of Medicine. 2010; 362(13):1228-33.
10. McGrath-Morrow SA, Gower WA, Rothblum-Oviatt C, Brody AS, Langston C, Fan LL, Lefton-Greif MA, Crawford TO, Troche M, Sandlund JT, **Auwaerter PG,** Easley B, Loughlin GM, Carroll JL, Lederman HM. Evaluation and management of pulmonary disease in ataxia-telangiectasia. Pediatric Pulmonology. 2010; 45(9):847-59.
12. Kaye KS, Auwaerter P, Bosso JA, Dean NC, Doern GV, Kays MB, Pogue JM, Ritchie DJ, Wispelwey BJ. Strategies to address appropriate fluoroquinolone use in the hospital. Hospital Pharmacy. 2010; 25(11); 844-853.

13. **Auwaerter PG**, Bakken JS, Dattwyler RJ, Dumler JS, Halperin JJ, McSweeney E, Nadelman RB, O'Connell S, Sood SK, Weinstein A, Wormser GP. Scientific evidence and best patient care practices should guide the ethics of Lyme disease activism. *Journal of Medical Ethics*. 2011;37(2):68-73.
15. **Auwaerter PG**, Dove J, Mackowiak PA. Simon Bolivar's medical labyrinth: an infectious diseases conundrum. *Clinical Infectious Diseases*. 2011; 52(1):78-85.
16. Mackowiak PA, **Auwaerter PG**, Dove J. Diagnosing the disorders of giants. *The Pharos*, Alpha Omega Alpha Honor Medical Society. Summer 2011; 24-28.
17. **Auwaerter PG**, Bakken JS, Dattwyler RJ, Dumler JS, Halperin JJ, McSweeney E, Nadelman RB, O'Connell S, Shapiro ED, Sood SK, Steere AC, Weinstein A, Wormser GP. Antiscience and ethical concerns associated with advocacy of Lyme disease. *Lancet Infectious Diseases*. 2011;11(9):713-9.
18. **Auwaerter PG**, Melia MT. Bullying Borrelia: When the Culture of Science is Under Attack. *Transactions of the American Clinical and Climatological Society*, *in press*.

#### Invited Review Articles

1. Karp CL, **Auwaerter PG**. Coinfection with HIV and tropical diseases. I: Protozoal pathogens. *Clinical Infectious Diseases*. 2007; 45(9):1214-20.
2. Karp CL, **Auwaerter PG**. Coinfection with HIV and tropical infectious diseases. II. Helminthic, fungal, bacterial, and viral pathogens. *Clinical Infectious Diseases*. 2007; 45(9):1208-13

#### Case Reports

1. Yanez M, **Auwaerter PG**, Urban BA, Cahid C. Hepatic abscess detected by lung scintigraphy. *The Journal of Critical Illness*. 2000; 15(2): 87-90.
2. Hristov AC, **Auwaerter PG**, Romagnoli M, Carroll KC. *Bordetella hinzii* septicemia in association with Epstein-Barr virus viremia and an Epstein-Barr virus-associated diffuse large B-cell lymphoma. *Diagnostic Microbiology and Infectious Disease*. 2008; 61(4):484-6.
3. Chang LW, Reller ME, Bishop JA, Talaat K, Nutman TB, **Auwaerter PG**. A 41-year-old woman from Cameroon with infertility. *Clinical Infectious Diseases*. 2008; 47(1):141-3.

#### Letters/Correspondence

1. **Auwaerter PG**. *The Pemberton and Maroni signs*. *Annals of Internal Medicine*. 1997; 126(11):916.
2. **Auwaerter PG**. Book review: *Molecular Biology, Host Interaction and Pathogenesis Borrelia: Molecular Biology, Host Interaction and Pathogenesis*. Edited by D. Scott Samuels, and Justin D. Radolf. Norfolk, UK: Caister Academic Press 2010, in *Clinical Infectious Disease* 2011;52, 965.

3. Mackowiak PA, **Auwaerter PG**, Dove J. *Reply to Torres and Murillo, Bolivar*. Clinical Infectious Diseases 2011, 53: 305-306.
4. **Auwaerter PG**, Bakken JS, Dattwyler RJ, Halperin JJ, Nadelman RB, O'Connell S, Shapiro ED, Weinstein A, Wormser GP. *Reply to Hushe-Shires, Perrone, Tuttle, Lyme disease Antiscience*. Lancet Infectious Diseases 2012; 12:362-363.

#### **Book Chapters/Monographs**

1. **Auwaerter PG**. Gram-negative meningitis. Neurobase III, 1997. Arbor Publications, San Diego, CA.
2. **Auwaerter PG**. Gram-positive meningitis. Neurobase III, 1997. Arbor Publications, San Diego, CA.
3. **Auwaerter, PG**. Listeria meningitis. Neurobase IV, 1997. Arbor Publications, San Diego, CA.
4. **Auwaerter PG**, Provost TT. Septicemia. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 530-534.
5. **Auwaerter PG**, Provost TT. Streptococcal Infections. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 535-540.
6. Provost TT, **Auwaerter PG**. Meningococcal Infections. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 541-543.
7. Provost TT, **Auwaerter PG**. Rickettsial Infections. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 544-546.
8. **Auwaerter PG**, Provost TT. Haemophilus influenzae. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 547-548.
9. Provost TT, **Auwaerter PG**. Tuberculosis. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 549-556.
10. Provost TT, **Auwaerter PG**. Leprosy. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 557-564.
11. Provost TT, **Auwaerter PG**. Syphilis. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 565-578.
12. Provost TT, **Auwaerter PG**. Other Sexually Transmitted Diseases. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc. Hamilton, Ontario, 579-584.
13. **Auwaerter PG**, Provost TT. Lyme Disease. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 585-589.

14. Provost TT, **Auwaerter PG**. Erysipeloid. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 592.
15. Provost TT, **Auwaerter PG**. Pseudomonas aeruginosa. Cutaneous Medicine, eds. Provost TT, Flynn JA. 2001. BC Decker, Inc., Hamilton, Ontario, 593-594.
16. Flynn JA, **Auwaerter PG**. Tickborne Diseases. The Principles of Ambulatory Medicine, 6<sup>th</sup> ed., eds. Barker LR, Burton JR, Zieve PD, Fiebach NH, Kern DE, Thomas PA, Ziegelstein RC. 2003. Lippincott, Williams & Wilkins, Philadelphia PA.
17. **Auwaerter PG**. Approach to the Patient with Fever. The Principles of Ambulatory Medicine, 6th ed., eds. Barker LR, Burton JR, Zieve PD, Fiebach NH, Kern DE, Thomas PA, Ziegelstein RC. 2003. Lippincott, Williams & Wilkins, Philadelphia PA.
18. Cheng A, **Auwaerter PG**. Bacterial Meningitis. The Osler Medical Handbook, eds. Cheng A, Zaas A. 2003. Mosby, Philadelphia PA.
19. **Auwaerter PG**. Bacterial Pneumonia. Conn's Current Therapy 2004, 56<sup>th</sup> ed., eds. Rakel RE, Bope ET. 2004. Saunders, Philadelphia PA, 265-268.
20. **Auwaerter PG**. Respiratory Infections. Johns Hopkins Board Review of Internal Medicine, eds. Miller RG, Ashar BH, Sisson SD. 2004. Mosby, Philadelphia PA.
21. **Auwaerter PG**. Lyme Disease. Distinguished Author Series, Internal Medicine. Oakstone Medical Publishing, Birmingham, Alabama, October 2005.
22. Kim S, Damico R, **Auwaerter PG**. Fever of Unknown Origin. The Osler Medical Handbook, 2<sup>nd</sup> ed., eds. Nilsson KR, Piccini JP. 2006. Saunders Elsevier, Philadelphia PA, 608- 619.
23. Spivak A, Cheng A, Zaas A, **Auwaerter PG**. Central Nervous System Infections. The Osler Medical Handbook, 2<sup>nd</sup> ed., eds. Nilsson KR, Piccini JP. 2006. Saunders Elsevier, Philadelphia PA, 619-629.
24. **Auwaerter PG**. Approach to the patient with fever, Chapter 21. The Principles of Ambulatory Medicine, 7<sup>th</sup> ed., eds. Fiebach NH, Kern DE, Thomas PA, Ziegelstein RC. 2007. Lippincott, Williams & Willkins, Philadelphia PA, 457-465.
25. **Auwaerter PG**, Flynn JF. Approach to the patient with Fever, Chapter 38. The Principle of Ambulatory Medicine, 7<sup>th</sup> ed., eds., Fiebach NH, Kern DE, Thomas PA, Ziegelstein RC. 2007. Lippincott, Williams & Willkins, Philadelphia PA, 560-571.
26. **Auwaerter PG**, editor. Meeting the Challenges of Childhood Influenza Immunization: A Public Health Perspective. Advanced Studies in Medicine. 2007; 7:7.
27. **Auwaerter PG**. Respiratory Infections, Chapter 10. Johns Hopkins Board Internal Medicine Board Review , 2<sup>nd</sup> ed., eds. Miller RG, Ashar BH, Sisson SD. 2008. Mosby Elsevier, Philadelphia PA, 75-86.
28. **Auwaerter PG**. Infectious Mononucleosis. Google knol. June 2008



(<http://knol.google.com/k/paul-auwaerter/infectious-mononucleosis/a3fCqzNS/cd-Niw#>).

29. **Auwaerter PG**, Shapiro ED. *Borrelia burgdorferi* (Lyme disease). Antimicrobial Therapy and Vaccines, Volume I: Microbes, eds. Yu VL, Weber R, Raoult D. 2008. Antimicrobe, Pittsburgh, PA.

### Books

1. The ABX Guide: Diagnosis and Treatment of Infectious Diseases, 1<sup>st</sup> edition. Editors: Bartlett JG, **Auwaerter PG**, Pham PA. Thomson PDR, Montvale, New Jersey, 2005.
2. The Johns Hopkins ABX Guide: Diagnosis and Treatment of Infectious Diseases, 2<sup>nd</sup> edition. Editors: Bartlett JG, **Auwaerter PG**, Pham PA. Jones and Bartlett Publishing, Sudbury, MA, 2010.
3. The Johns Hopkins ABX Guide: Diagnosis and Treatment of Infectious Diseases, 3<sup>rd</sup> edition. Editors: Bartlett JG, **Auwaerter PG**, Pham PA. Jones and Bartlett Publishing, Sudbury, MA, 2012.

### Other Media

1. Nettles R and **Auwaerter PG**. Pericarditis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, November 2002.
2. Nettles R and **Auwaerter PG**. Myocarditis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, November 2002.
3. **Auwaerter, PG**. Epstein Barr Virus. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, November 2002.
4. Blankson J and **Auwaerter PG**. Streptococcal Toxic Shock Syndrome. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, November 2002.
5. Blankson J and **Auwaerter PG**. Staphylococcal Toxic Shock Syndrome. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, November 2002.
6. Nuermberger E, **Auwaerter PG**. Diabetic Foot Infections. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, December 2002.
7. Nuermberger E, **Auwaerter PG**. Hardware-associated Septic Arthritis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, December 2002.
8. **Auwaerter PG**. Bacterial Meningitis, Community-acquired. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, December 2002.
9. Ghanen K, **Auwaerter PG**. Streptobacillus monilliformis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2003.
10. Ghanen K, **Auwaerter PG**. Rabies. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2003.

- abxguide.org], Baltimore, MD, January 2003.
11. Ghanen K, **Auwaerter PG**. Vaccinia. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2003.
  12. **Auwaerter PG**. B Virus. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, February 2003.
  13. **Auwaerter PG**. Whipple's Disease. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, February 2003.
  14. Ghanen K, **Auwaerter PG**. Shigella species. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, April 2003.
  15. Ghanen K, **Auwaerter PG**. Dermatophytes. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, April 2003.
  16. **Auwaerter PG**. Measles. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2003.
  17. **Auwaerter PG**. Ehrlichia. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2003.
  18. **Auwaerter PG**. Varicella Zoster Virus. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, June 2003.
  19. **Auwaerter PG**. Nosocomial Diarrhea. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, August 2003.
  20. **Auwaerter PG**. Bacillus species. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, August 2003.
  21. **Auwaerter PG**. Mastitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, August 2003.
  22. **Auwaerter PG**. Rubella. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, August 2003.
  23. **Auwaerter PG**. Acute Rheumatic Fever. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2003.
  24. **Auwaerter PG**. Serratia. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2003.
  25. Ghanen K, **Auwaerter PG**. Ascaris. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2003.
  26. Ghanen K, **Auwaerter PG**. Cardiovascular Device Infections. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2003.

27. Ghanen K, **Auwaerter PG**. Onchocercosis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
28. Ghanen K, **Auwaerter PG**. Taenia saginata. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
29. Ghanen K, **Auwaerter PG**. Acanthamoeba. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
30. Ghanen K, **Auwaerter PG**. JC/BK virus. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
31. Ghanen K, **Auwaerter PG**. Lacrimal infections. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
32. Ghanen K, **Auwaerter PG**. Ocular keratitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
33. Ghanen K, **Auwaerter PG**. Orbital cellulitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
34. Ghanen K, **Auwaerter PG**. Parvovirus B19. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
35. Ghanen K, **Auwaerter PG**. Prion diseases. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
36. Ghanen K, **Auwaerter PG**. Ascaris. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
37. Ghanen K, **Auwaerter PG**. Chronic Fatigue Syndrome. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
38. Ghanen K, **Auwaerter PG**. Enterobius. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
39. Ghanen K, **Auwaerter PG**. Fever and neutropenia. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
40. Ghanen K, **Auwaerter PG**. HHV6/HHV7. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
41. Ghanen K, **Auwaerter PG**. Hookworm. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2004.
42. Zaas D, **Auwaerter PG**. Clostridium tetani. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.

43. Zaas D, **Auwaerter PG**. Bordetella. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
44. Zaas D, **Auwaerter PG**. Plesiomonas. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
45. Zaas D, **Auwaerter PG**. Bronchiectasis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
46. **Auwaerter PG**, Srinivasan AS. Antibiotic Prophylaxis for Surgery. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
47. **Auwaerter PG**, Srinivasan AS. Helicobacter pylori. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
48. **Auwaerter PG**. Haemophilus influenzae. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
49. **Auwaerter PG**. Candida albicans. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
50. **Auwaerter PG**. Streptococcus species. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2004.
51. **Auwaerter PG**. Cardiac Manifestations of HIV. Johns Hopkins HIV Guide [<http://hopkins-hivguide.org>], Baltimore, MD, October 2004.
52. **Auwaerter PG**. Haemophilus influenzae. Johns Hopkins HIV Guide [<http://hopkins-hivguide.org>], Baltimore, MD, October 2004.
53. **Auwaerter PG**. Epstein-Barr Virus. Johns Hopkins HIV Guide [<http://hopkins-hivguide.org>], Baltimore, MD, October 2004.
54. **Auwaerter PG**. Nocardia. Johns Hopkins HIV Guide [<http://hopkins-hivguide.org>], Baltimore, MD, October 2004.
55. **Auwaerter PG**. E. coli. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, November 2004.
56. **Auwaerter PG**. Borrelia species. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2005.
57. **Auwaerter PG**. Propionibacterium species. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2005.
58. **Auwaerter PG**. Myelitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2005.
59. **Auwaerter PG**. Citrobacter species. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, March 2005.

60. **Auwaerter PG.** Capnocytophaga canimorsus. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, March 2005.
61. **Auwaerter PG.** Mumps. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, July 2005.
62. Aronson MD, **Auwaerter PG.** Infectious mononucleosis in adults and adolescents. Up-To-Date, ed. Rose, BD, Wellesley, MA, 2005.
63. **Auwaerter PG.** Aseptic Meningitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, April 2007.
64. **Auwaerter PG.** Bacterial Meningitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2007.
65. **Auwaerter PG.** Lymphadenopathy. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2007.
66. **Auwaerter PG.** Lymphangitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2007.
67. **Auwaerter PG.** Myelitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2007.
68. **Auwaerter PG, Dorman S.** Mycobacterium ulcerans. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2007.
69. **Auwaerter PG, Dorman S.** Mycobacterium xenopi. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2007.
70. **Auwaerter PG.** Myocarditis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, May 2007.
71. **Auwaerter PG.** Nosocomial Diarrhea. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, June 2007.
72. **Auwaerter PG.** Encephalitis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, June 2007.
73. **Auwaerter PG.** Hepatitis A. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, June 2007.
74. **Auwaerter PG.** Hepatitis D. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, June 2007.
75. **Auwaerter PG, Carpenter C.** Hepatitis, non-A, B, C, D or E. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, June 2007.

76. **Auwaerter PG.** Brain Abscess. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2007.
77. **Auwaerter PG.** CNS Shunt Infections. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2007.
78. **Auwaerter PG, Martins CR.** Erythrasma. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2007.
79. **Auwaerter PG.** Carbuncle/Furuncle. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2007.
80. **Auwaerter PG, Martins CR.** Impetigo. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2007.
81. **Auwaerter PG.** Venous sinus thrombosis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2007.
82. **Auwaerter PG.** Pericarditis. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, September 2007.
83. **Auwaerter PG, Dorman S.** Mycobacterium abscessus. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2007.
84. **Auwaerter PG, Dorman S.** Mycobacterium fortuitum. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2007.
85. **Auwaerter PG, Dorman S.** Mycobacterium gordonae. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2007.
86. **Auwaerter PG, Dorman S.** Mycobacterium marinum. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2007.
87. **Auwaerter PG, Dorman S.** Mycobacterium scrofulaceum. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2007.
88. **Auwaerter PG, Dorman S.** Other atypical mycobacteria. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, October 2007.
89. **Auwaerter PG, Perl T.** SARS (Severe Acute Respiratory Syndrome). Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, January 2009.
90. **Auwaerter PG.** Aeromonas. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, July 2009.
91. **Auwaerter PG.** Chikungunya virus. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, July 2009.
92. **Auwaerter PG, Vinetz J.** Mycobacterium leprae. Johns Hopkins Antibiotic Guide [<http://hopkins-abxguide.org>], Baltimore, MD, August 2009.

93. **Auwaerter PG, Vinetz J.** *Rickettsia rickettsii*. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, August 2009.
94. **Auwaerter PG, Vinetz J.** *Rickettsia* species. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, August 2009.
95. **Auwaerter PG, Vinetz J.** *Schistosoma* species. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, August 2009.
96. **Auwaerter PG, Vinetz J.** *Strongyloides stercoralis*. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, August 2009.
97. **Auwaerter PG, Vinetz J.** *Taenia solium*. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, August 2009.
98. **Auwaerter PG, Vinetz J.** *Vibrio cholerae*. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, August 2009.
99. **Auwaerter PG, Vinetz J.** *Toxoplasma gondii*. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, August 2009.
100. **Auwaerter PG.** Tick paralysis. MedLink Neurology [http://www.medlink.com/medlinkcontent.asp], San Diego, CA, October 2009.
101. **Auwaerter PG.** Subacute sclerosing encephalitis. MedLink Neurology [http://www.medlink.com/medlinkcontent.asp], San Diego, CA, January 2010.
102. **Auwaerter PG.** Polio. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, April 2010.
103. **Auwaerter PG.** *Cystoisospora belli*. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, November 2010.
104. **Auwaerter PG.** *Blastocystis hominis*. Johns Hopkins Antibiotic Guide [http://hopkins-abxguide.org], Baltimore, MD, November 2011.
105. **Auwaerter PG.** Metapneumovirus. Johns Hopkins Antibiotic Guide [http://www.hopkinsguides.com/Hopkins/ub], Baltimore, MD, June 2012.
106. **Auwaerter PG.** Endometritis. Johns Hopkins Antibiotic Guide [http://www.hopkinsguides.com/Hopkins/ub], Baltimore, MD, June 2012.
107. **Auwaerter PG.** Chorioamnionitis. Johns Hopkins Antibiotic Guide [http://www.hopkinsguides.com/Hopkins/ub], Baltimore, MD, June 2012.

## Teaching

### Classroom instruction

|              |   |
|--------------|---|
| 1996-1999    | Johns Hopkins University School of Medicine Microbiology Course Workshops   |
| 2006-2010    | Johns Hopkins University School of Medicine Human Physiology Course, Introduction to Virology   |
| 2006-2010    | Johns Hopkins University School of Medicine Human Physiology Course, RNA Viruses and Gastrointestinal Viruses   |
| 2010-present | Johns Hopkins University School of Medicine Genes to Society Course, Introduction to Virology   |
| 2010         | Lyme Disease and other Borrelia Infections. Principles of Bacterial Infections, 260.22, Molecular Microbiology and Immunology, Environmental Health Sciences, Epidemiology and Pathology, Johns Hopkins Bloomberg School of Public Health |
| 2011         | Bacterial and Fungal Infections of the Respiratory Tract. Environmental Health Sciences, Epidemiology and Pathology, Johns Hopkins Bloomberg School of Public Health  |

### Clinical instruction

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|--------------|---|
| 1996-2002    | Ambulatory Medicine Preceptor, Johns Hopkins Housestaff, Johns Hopkins Hospital                                       |
| 1997-1999    | Intern Case Ambulatory Care Elective, Green Spring Station  |
| 1996-present | Infectious Diseases, Clinical Rotation, Department of Medicine, Johns Hopkins University School of Medicine           |
| 1996-present | General Internal Medicine, Firm Faculty, Janeway, Department of Medicine, Johns Hopkins University School of Medicine |
| 1999-present | Infectious Diseases Fellow Outpatient Clinic, preceptor, Green Spring Station   |
| 2003-2005    | Infectious Diseases Outpatient Clinic, medical resident preceptor, Green Spring Station                               |

### CME instruction

|               |   |
|---------------|---|
| October 1996  | Cat Scratch Disease. Clinicopathological Conference, Department of Pathology, Johns Hopkins Hospital, Baltimore, MD<br>Generalized Vaccinia. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD |
| November 1996 | Varicella Zoster Virus. Saturday Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD   |
| December 1996 | Invasive Aspergillosis. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| May 1997      | Enteric Fever. Saturday Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  |
| November 1997 | Evaluation of Lymph Nodes. Saturday Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  |



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| November 1997  | Infectious Mononucleosis. Department of Medicine Grand Rounds, Johns Hopkins University School of Medicine, Baltimore, MD   |
| August 1998    | Herpesvirus Infections 1-8. Johns Hopkins Infectious Disease Update Course, Santa Fe, NM  |
|                | Approach to Fevers of Unknown Origin. Johns Hopkins Infectious Disease Update Course, Santa Fe, NM  |
| September 1998 | Fever in a Returning Traveler. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD   |
| October 1998   | Evaluation of Fevers of Unknown Origin. Saturday Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD   |
| January 1999   | Q Fever. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD   |
| May 1999       | The Diagnostic Evaluation of Fevers of Unknown Origin. Topics in Internal Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  |
| June 1999      | Prevention of Travel Related Illnesses. Preventative Ambulatory Medicine Conference, Loews Hotel, Annapolis, MD   |
| August 1999    | Fevers of Unknown Origin. Medical Grand Rounds, Olney Hospital, Olney, MD   |
| October 1999   | Prevention of Travel Related Illnesses. Saturday Medicine, Department of Medicine, Johns Hopkins University School of Medicine  |
| February 2000  | The Pneumococcus and Antibiotic Resistance. Medicine Grand Rounds, St. Joseph's Hospital, Towson, MD  |
| April 2000     | Scrofulous Coccidioides. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD   |
| May 2000       | Prevention of Travel Related Illnesses. Topics in Internal Medicine. Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD.                                |
| June 2000      | Pneumonia Update. Medical Grand Rounds, Franklin Square Hospital, Baltimore, MD   |
| October 2000   | Update in Travel Medicine. Medical Grand Rounds, Harbor Hospital, Baltimore, MD   |
|                | Tuberculous Lymphadenitis and Extra-Pulmonary Tuberculosis, Grand Rounds, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD                            |
| November 2000  | Pneumonia: 2000. Medical Grand Rounds, Kent and Queen Anne's Hospital, Chestertown, MD  |
| December 2000  | Controversies in Lyme Disease (with workshop). Ambulatory Medicine Topics Course, Department of Medicine, Johns Hopkins University School of Medicine, Renaissance Hotel, Baltimore, MD |
| January 2001   | Cutaneous Alternaria. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| February 2001  | Extra-pulmonary TB. Saturday Medicine, Johns Hopkins Hospital, Baltimore, MD  |
|                | Spotted Fever Group Rickettsioses. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD   |

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| May 2001       | Lyme disease in Primary Care. Topics in Internal Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD   |
| September 2001 | Lyme disease: What You Need to Know. Saturday Medicine, Department of Medicine, Johns Hopkins Hospital, Baltimore, MD<br>Quinolone drugs: Is There Any Difference? Annual Meeting, Maryland Council of Pharmacists, University of Maryland, College Park, MD  |
| December 2001  | Paroxysmal cold hemaglobinuria due to secondary syphilis and the Donath-Landsteiner Antibody. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| March 2002     | Neuroborreliosis. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| May 2002       | What You Need to Know About Lyme disease. Medicine Grand Rounds, Bayview Medical Center, Johns Hopkins University School of Medicine, Baltimore, MD<br>Trends in the Diagnosis and Management of Respiratory Infection. Grand Rounds, Southern Maryland Hospital, Clinton, MD<br>New Antibiotic Update. Topics in Internal Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD<br>Update in the Management of Respiratory Infections. Hot Topics in Nursing, Annual Meeting of Maryland Nurse Practitioners, Johns Hopkins University School of Nursing, Baltimore, MD |
| July 2002      | Respiratory Tract Infections. Johns Hopkins Internal Medicine Board Review Course, Johns Hopkins University School of Medicine, Baltimore, MD   |
| September 2002 | New Oral and Topical Antimicrobials. Medicine Grand Rounds, Southpointe Hospital Center, St. Louis, MO  |
| October 2002   | Fever and Fevers of Unknown Origin. Medicine Grand Rounds, Greater Baltimore Medical Center, Towson, MD.<br>Trends in Respiratory Diseases with an Emphasis in Sinusitis. Medicine Grand Rounds, Holy Cross Hospital Center, Silver Spring, MD  |
| November 2002  | Pneumococcal Resistance: Do We Need to Change Our Clinical Practices? Medicine Grand Rounds, Marion General Hospital, Ohio State University, Marion, OH.<br>Trends in Respiratory Diseases with an Emphasis on Acute Exacerbations of Chronic Bronchitis and Acute Bacterial Sinusitis. Medicine Grand Rounds, St. Joseph's Hospital Center, Towson, MD<br>Antibiotic Resistance: Where Do We Stand and What Can We Do? Medicine Grand Rounds, Holy Cross/Provident Hospital Center, Mission Hills, CA  |
| December 2002  | Current Guidelines for the Management of Respiratory Tract Infections. CME Monthly Rounds, Lee's Summit Hospital, Lee's Summit, MO.   |
| January 2003   | Update on Acute Exacerbation of Chronic Bronchitis. Medicine Grand Rounds, Brunswick General Hospital, Amityville, NY   |
| February 2003  | Lyme Disease for the Internist. Medicine Grand Rounds, Good Samaritan Hospital, Baltimore, MD   |
| May 2003       | Fever and Fever of Unknown Origin: Definitions and Concepts. Topics in Internal Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  |

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| September 2003 | Update on Antibiotic Use in Respiratory Tract Infections. Medicine Grand Rounds, South Mountain Home Hospital, South Mountain, PA<br>Chronic fatigue due to hemochromatosis. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD           |
| 2004-2006      | Annual Conference on Information Technologies at the Point of Care, Conference Director, Johns Hopkins University School of Medicine, Baltimore, MD   |
| January 2004   | The Management of Acute Respiratory Tract Infections in an Era of Resistance. The Florida Allergy, Asthma and Immunology Society, Visiting Professor, Fort Lauderdale, FL   |
| March 2004     | Trends in Respiratory Infections. Adams County Medical Society, Gettysburg, PA  |
| April 2004     | Respiratory Tract Infections and Their Management for Primary Care Physicians. Grand Rounds, Lancaster Regional Hospital, Lancaster, PA   |
| August 2004    | Fever of Unknown Origin and Tick-borne Diseases. The 9 <sup>th</sup> Annual Topics in Infectious Diseases for Primary Care, Santa Fe, NM<br>Common Viral Infections in Primary Care. The 9 <sup>th</sup> Annual Topics in Infectious Diseases for Primary Care, Santa Fe, NM                    |
| October 2004   | Lyme Disease: What a Rheumatologist Needs to Know. Maryland Rheumatology Society, Baltimore, MD<br>Update on Respiratory Tract Infections and Antimicrobial Resistance. Grand Rounds, York Hospital, York, PA   |
| November 2004  | Respiratory Tract Infections: Place of Fluoroquinolones and Ketolides. Maryland Society of Health System Pharmacists, Baltimore, MD<br>New Antibiotics: What Are Their Roles? Burlington County Medical Society, Burlington, NJ   |
| January 2005   | Respiratory Tract Infection Update. Grand Rounds, Southern Maryland Hospital, Clinton, MD   |
| July 2005      | Newer Antibiotics and Vaccines. Johns Hopkins CME at Sea, Vancouver, Canada<br>Update on Respiratory Tract Infections. Johns Hopkins CME at Sea, Vancouver, Canada<br>Emerging Infectious Diseases and Antimicrobial Resistance. Johns Hopkins CME at Sea, Vancouver, Canada                    |
| September 2005 | Cellulitis, Skin Abscesses: When to Factor Community-Acquired MRSA? Infectious Diseases for the Primary Care Practitioner, Johns Hopkins University School of Baltimore, MD   |
| February 2006  | Community-acquired Pneumonia: Agreement and Controversies. Infectious Diseases Grand Rounds, Walter Reed Hospital, Washington, DC<br>Respiratory Tract Infections: Diagnosis and Management in the Hospital and the Office. Malcolm Grow Medical Center, Andrews Air Force Base, Washington, DC |
| April 2006     | Amyloidosis masquerading as "chronic Lyme disease." Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| May 2006       | Clinical Update, Lyme Disease 2006. Family Medicine Grand Rounds, Brookhaven Memorial Hospital (SUNY Stony Brook), East Patchogue, NY   |

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|               | Vaccine Update: Meningococcal, Tdap, Zoster and Influenza. Topics in Internal Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD.  |
| July 2006     | Lyme Disease: Discussion of Controversies. Grand Rounds, Shore Memorial Hospital, Nassawadox, VA<br>FUO due to Schnitzler's Syndrome. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD                                     |
| August 2006   | Acute Gastrointestinal Syndromes. The 11 <sup>th</sup> Annual Topics in Infectious Diseases for Primary Care, San Diego, CA<br>Viral Infections and Tick-borne Diseases in Primary Care. The 11 <sup>th</sup> Annual Topics in Infectious Diseases for Primary Care, San Diego, CA |
| November 2006 | <b>Auwaerter PG.</b> Influenza Review. eInfection Literature Review. Johns Hopkins University Center for Continuing Medical Education, Vol. 1 No. 2, <a href="http://www.einfectionsreview.org/">http://www.einfectionsreview.org/</a>   |
| 2007-2010     | Co-editor, eInfections Review Monthly, Johns Hopkins University School of Medicine Office of Continuing Medical Education, Baltimore, MD, <a href="http://www.einfectionsreview.org/">http://www.einfectionsreview.org/</a>  |
| June 2007     | Lyme Update 2007. Medical and Pediatrics Grand Rounds, Peninsula Regional Medical Center, Salisbury, MD  |
| July 2007     | <b>Auwaerter PG.</b> Common Tick-borne Infections in the United States. eInfection Review. Johns Hopkins University Center for Continuing Medical Education, Vol. 2 No. 1, <a href="http://www.einfectionsreview.org/">http://www.einfectionsreview.org/</a>                       |
| October 2007  | Update on Common Respiratory Tract Infections. Northern Virginia Medical Society, Alexandria, VA   |
| May 2008      | <b>Auwaerter PG.</b> Infectious Mononucleosis. eInfection Review. Johns Hopkins University Center for Continuing Medical Education, Vol. 2, No. 11, <a href="http://www.einfectionsreview.org/">http://www.einfectionsreview.org/</a>  |
| April 2008    | "Chronic Lyme Disease" refractory to antibiotic treatment explained by pituitary-hypothalamic dysfunction secondary to neurosarcoidosis. Infectious Diseases Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD   |
| October 2008  | Update on Antibiotic Prophylaxis. Blair Memorial Lectureship. Warren General Hospital, Warren, PA<br>Chronic Lyme disease: Facts and Foibles. Blair Memorial Lectureship. Warren General Hospital, Warren, PA  |
| 2009-present  | Annual Conference on Infectious Diseases for the Primary Care Provider, Co-director, Johns Hopkins University School of Medicine, Baltimore, MD  |
| January 2009  | Complications of anti-TNF inhibitor therapy. Division of Allergy and Immunology Grand Rounds, Johns Hopkins University School of Medicine, Baltimore, MD   |
| February 2009 | Issues in Endocarditis Treatment and Prophylaxis. Topics in Cardiovascular Medicine, Johns Hopkins University School of Medicine, Baltimore, MD  |
| August 2009   | CNS Shunt Infections. Infectious Diseases Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| November 2009 | <b>Auwaerter PG.</b> Pandemic and Seasonal Influenza. eInfection Review. Johns Hopkins University Center for Continuing Medical Education, Vol. 3 No. 1, <a href="http://www.einfectionsreview.org/">http://www.einfectionsreview.org/</a>   |

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| February 2010  | Chronic fatigue and other symptoms due to chronic arsenicosis, not Lyme disease. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD |
|                | Microsporidial keratitis. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| May 2010       | Antibiotics or Not? Topics in Internal Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD   |
| June 2010      | Lyme Disease. The 6 <sup>th</sup> Annual Rheumatology Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| July 2010      | Food poisoning due to Fiddlehead Ferns. . Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD  |
| September 2010 | Erythromelalgia. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD   |
| April 2011     | Sarcoidosis. Infectious Diseases Clinical Case Conference, Johns Hopkins University School of Medicine, Baltimore, MD   |
| May 2011       | Lyme Disease. Topics in Internal Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD   |
| October 2011   | Ectoparasites. ID Update for Primary Care. Johns Hopkins University School of Medicine, Baltimore MD  |
| May 2012       | Bedbugs, Scabies and Intimate Pets. Topics in Internal Medicine. Johns Hopkins University School of Medicine, Baltimore MD  |
| June 2012      | Lyme Disease, Vector-borne Diseases in the Tropics Course, Bloomberg School of Public Health, Baltimore, MD   |

### **Mentoring**

2003

2012

(b) (6)

## **CLINICAL ACTIVITIES**

### **Certifications**

|      |   |
|------|---|
| 1991 | Medical License, State of Maryland, (b) (6)   |
| 1992 | Board certified, Internal Medicine (ABIM): December 1992, recertified November 2002   |
| 1994 | Board certified, Infectious Diseases (ABIM): December 1994, recertified November 2004 |

## **Clinical Responsibilities**

1996-present    Infectious Diseases Consultant, Johns Hopkins Hospital  
1996-present    General Internal Medicine, Attending, Johns Hopkins Hospital

## **Clinical Program Building**

1999-2006      Director, General Internal Medicine at Johns Hopkins, Green Spring Station  
2006-present   Clinical Director, Division of Infectious Diseases, Johns Hopkins University School of Medicine  
2009            Established Rockland Physician Practice and Research Group, Johns Hopkins at Green Spring Station  
2011            Established Fisher Center for Environmental Infectious Diseases, Johns Hopkins University School of Medicine

## **ORGANIZATIONAL ACTIVITIES**

### **Institutional Administrative Appoints**

1996-present    Department of Medicine, Intern Selection Committee  
1998-present    Director, Board of Governors, Johns Hopkins Green Spring Station, Lutherville, MD

### **Editorial Activities (ad hoc reviewer)**

American Family Physician  
American Journal of Managed Care  
American Journal of Medical Sciences  
American Journal of Tropical Medicine and Hygiene  
British Medical Journal  
Clinical Infectious Diseases  
Emerging Infectious Diseases  
European Journal of Internal Medicine  
IDSA Guideline Reviews  
International Journal of STD & AIDS  
Journal of the American Family Physician  
Journal of the American Medical Association (JAMA)  
Journal of General Internal Medicine  
Journal of Infectious Diseases  
Journal of the Physician and Sports Medicine  
Lancet  
Medicine  
Medical Principles and Practice  
New England Journal of Medicine  
Science Translational Medicine  
World Journal of Pediatrics

### **Advisory Committees**

1999-2000      American College of Physicians, panel participant on Development of Guidelines

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|              | for Acute Exacerbations of Chronic Bronchitis   |
| 2005-present | Technical Expert Panel (TEP) Update on the Surgical Care Improvement Project (SCIP) – Infection, Foundation for Medical Quality |
| 2008-present | Editorial Advisory Board, Infectious Diseases, Medscape   |
| 2009-present | Advisory Board Member, Palm Beach Infectious Disease Institute  |
| 2011-present | Anti-infective Advisory Panel, Food and Drug Administration   |

### **Professional Societies**

|              |   |
|--------------|---|
| 1992-present | American College of Physicians, Fellow (elected 2001)   |
| 1993-present | Infectious Disease Society of America, Fellow (elected 2009)  |
|              | 2004-2007 Program Committee member for Annual Meeting of the Infectious Diseases Society of America   |
|              | 2008 Vice Chair, Program Committee for combined ICAAC/IDSA 48 <sup>th</sup> /46 <sup>th</sup> Annual Meeting, October 24-28, 2008 Washington, DC                    |
|              | 2009 Chair, Annual Program Committee for the 47 <sup>th</sup> Annual Meeting Infectious Diseases Society of America, October 29-November 1, 2009, Philadelphia, PA. |
|              | 2010 Past Chair, Annual Program Committee for the 48 <sup>th</sup> Annual Meeting of the Infectious Diseases Society of America, October 21-24 2010, Vancouver, BC  |
|              | 2011-2014 Director, Board of Directors, Infectious Diseases Society of America  |
| 1995-1997    | American Society for Virology   |
| 1999-2004    | American Society of Tropical Medicine and Hygiene   |
| 2006-present | American Society of Microbiology  |
| 2009-present | The American Clinical and Climatological Association  |

### **Conference Organizer**

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|--------------|---|
| 2004-2006    | Annual Conference on Information Technologies at the Point of Care, Conference Director, Johns Hopkins University School of Medicine, Baltimore MD. |
| 2009-present | Annual Conference on Infectious Diseases for the Primary Care Provider, Co-director, Johns Hopkins University School of Medicine, Baltimore, MD     |

## **RECOGNITION**

### **Awards, Honors**

|      |   |
|------|---|
| 1982 | Class of 1961 J. R. Macy Research Scholarship, Columbia University          |
| 1984 | Phi Beta Kappa, Columbia University   |
| 1988 | Aranow Prize in Medicine, Columbia University                               |
| 1995 | Young Investigator's Day Award, Johns Hopkins University School of Medicine |
| 1997 | The L. Randall Barker General Internal Medicine Fellows Appreciation Award  |

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| 2002 | Top Doctor, Baltimore Magazine, Internal Medicine  |
| 2003 | The John Moyer Visiting Professorship, University of Pittsburgh School of Medicine.<br>Johnstown, Pennsylvania |
| 2003 | Visiting Professor, Department of Otolaryngology, University of Pennsylvania School of Medicine                |
| 2004 | Visiting Professor, Robert Wood Johnson School of Medicine   |
| 2007 | Top Doctor, Infectious Diseases and Internal Medicine, Baltimore Magazine                                      |
| 2009 | Top Doctor, Baltimore Magazine, Infectious Diseases  |
| 2011 | Top Doctor, Baltimore Magazine, Infectious Diseases  |

### Invited Talks, Panels

|               |   |
|---------------|---|
| October 1999  | Malaria Update. The First Yemeni-American Medical Conference, US State Department, Sanaa, Yemen   |
| March 2000    | The Problem of Antimicrobial Resistance and the Pneumococcus. The First Yemeni-American Medical Conference, US State Department, Sanaa, Yemen   |
| November 2000 | Antibiotic resistance and the Pneumococcus. Medical Grand Rounds, Wilmington Hospital, Wilmington, Delaware   |
| April 2002    | Controversies in Diagnosis and Management of Pneumonia. The Pulmonology Society of Puerto Rico, San Juan, PR  |
| May 2002      | Update in the Respiratory Infections and the Implications of Antibiotic Resistance. Annual Meeting for the Tennessee Osteopathic Association (TOMA), Kingsport, TN                          |
|               | Community-Acquired Pneumonia and Clinical Guidelines. Annual Meeting for the Tennessee Osteopathic Association (TOMA), Kingsport, TN  |
|               | Prudent Use of Antibiotics in Respiratory Infections. NPACE/National Women's Healthcare Conference, Alliance for the Prudent Use of Antibiotics (APUA), Newport, RI                         |
|               | Management of Respiratory Infections. NPACE/National Women's Healthcare Conference, Alliance for the Prudent Use of Antibiotics (APUA), Newport, RI   |
| May 2002      | Trends in the Management of Respiratory Infections. Family Medicine Grand Rounds, University of Nebraska, Omaha, NE   |
| October 2002  | Clinical Management of Infectious Diseases Panel, Moderator Merle Sande, M.D., 40 <sup>th</sup> Meeting of the Infectious Diseases Society of America, Chicago, IL                          |
| November 2002 | Important Changes in Lower Respiratory Tract Infections and Pharmacological Interventions, Conference on Respiratory Illnesses, George Washington University Hospital, Washington, DC       |
| March 2003    | What Anthrax and Acute Bronchitis Have in Common. American Medical Student Association National Convention, Arlington, VA   |
| May 2003      | Keynote Speaker: "eTools for Medicine, Strategic Integrations." ePharma Summit, Baltimore Convention Center, Baltimore, MD  |
| May 2003      | Post Anthrax-Ciprofloxacin Resistance and Other Emerging Resistant Bacterial Organisms. 31 <sup>st</sup> Annual Convention of the American Academy of Physician Assistants, New Orleans, LA |
| November 2003 | New Pulmonary Pathogens. 6 <sup>th</sup> Annual Convention of the Puerto Rican Society of Pulmonology, University of Puerto Rico School of Medicine, Rio Grande, PR                         |
| October 2004  | Clinical Management of Infectious Diseases Panel, Moderator Merle Sande, M.D., 42 <sup>nd</sup> Meeting Infectious Diseases Society of America, Boston, MA                                  |



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| May 2006       | Turning Texts into Tools, Point of Care: From Where to Care. Association of American Medical Publishers Annual Meeting. New York, NY   |
| October 2006   | Are Antibiotics Indicated for the Persistent Symptoms in Lyme Disease? 44 <sup>th</sup> Meeting Infectious Diseases Society of America, Toronto, Canada  |
| October 2007   | Treatment of Lyme Disease: The IDSA Perspective. Lyme and Other Tick-borne Diseases Conference, ILADS, Boston, MA<br>Images in Infectious Diseases and Case Discussion Panel, Moderator Timothy Raj Ghandi, MD, 45 <sup>th</sup> Meeting Infectious Diseases Society of America, San Diego, CA   |
| April 2009     | The Microbiology and the Treatment of Chronic Lung Infections. Pulmonary Disease in Ataxia-Telangiectasia Conference, Ataxia-Telangiectasia Foundation, Baltimore, MD  |
| October 2009   | Case Panel Discussion Panel, Moderator Timothy Raj Ghandi, MD, 47 <sup>th</sup> Meeting Infectious Diseases Society of America, Philadelphia PA  |
| November 2009  | Pandemic H1N1 2009. Medicine Grand Rounds, The Eric Williams Medical School, University of the West Indies, Port of Spain, Trinidad  |
| December 2009  | Common Questions Regarding Antibiotic Prophylaxis. Pri-Med Annual Conference, Baltimore Convention Center, Baltimore MD  |
| February 2010  | Lyme Disease for the Practitioner. Calvert County Medical Society, Prince Frederick, MD  |
| February 2010  | Lyme Disease Update: Reality and Politics. Medicine Grand Rounds, Greater Baltimore Medical Center, Towson, MD   |
| April 2010     | A Medical Labyrinth: Simon Bolívar. 17 <sup>th</sup> Annual Historical Clinicopathological Conference. University of Maryland School of Medicine and the Veterans Affairs (VA) Maryland Health Care System, Baltimore, MD  |
| October 2010   | Ask the Experts. Pri-Med Annual Conference. Baltimore Convention Center, Baltimore, MD   |
| November 2010  | Electronic Decision Support at the Point of Care: Integrating Content for a Low Resource Setting. Annual Meeting of the American Public Health Association, Denver, CO   |
| August 2011    | Common Scenarios in Primary Care: Lyme disease. Pri-Med Annual Conference. Baltimore Convention Center, Baltimore, MD  |
| September 2011 | Challenges in the acceptance and adoption of new diagnostic tests. EU-US Workshop TATFAR: Challenges and Solutions in the development of New Diagnostic Tests to Combat Antimicrobial Resistance. Place Madou, Brussels, Belgium.  |
| April 2012     | Bullying Borrelia. NIAID Grand Rounds, NIH, Bethesda, MD.<br>Intimate Pets: Scabies, Bedbugs, Lice and Other Creatures,. InfectiousDisease Society of Ohio, Ohio State University, Columbus OH<br>Perils and Pitfalls in Clinical Infectious Diseases, IDSA Annual Fellows Conference, Naples FL |
| May 2012       | Chronic Lyme disease: Peril to Public Health. Massachusetts Society of Infectious Diseases, Boston MA.   |

## COMMUNITY ACTIVITIES

Club Physician: Caves Valley Golf Club, Owings Mills, Maryland

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